



SLOVENSKI STANDARD

SIST ENV 12520:2001

01-februar-2001

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j UfbcglbY`nU hýj Y`

Domestic furniture - Seating - Mechanical and structural safety requirements

Möbel für den Wohnbereich - Sitzmöbel - Mechanische und konstruktive
Sicherheitsanforderungen

Mobilier domestique - Sieges - Exigences mécaniques et structurelles de sécurité

Ta slovenski standard je istoveten z: ^{SIST ENV 12520:2001} ENV 12520:2000
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ICS:

97.140 Pohištvo Furniture

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EUROPEAN PRESTANDARD
PRÉNORME EUROPÉENNE
EUROPÄISCHE VORNORM

ENV 12520

March 2000

ICS 97.140

English version

Domestic furniture - Seating - Mechanical and structural safety requirements

Mobilier domestique - Sièges - Exigences mécaniques et structurelles de sécurité

Möbel für den Wohnbereich - Sitzmöbel - Mechanische und konstruktive Sicherheitsanforderungen

This European Prestandard (ENV) was approved by CEN on 1 March 2000 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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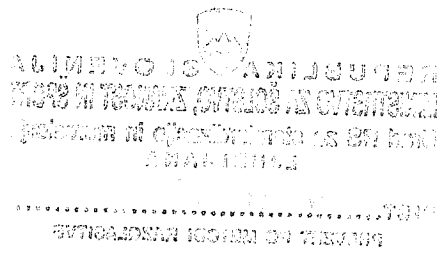
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Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by IBN.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European pre-standard specifies mechanical and structural safety requirements for all types of domestic seating for adults including folding and adjustable seating.

This European pre-standard applies to seating that can be converted into beds, but only when in the seating configuration.

It does not include durability requirements for castors, for reclining and tilting mechanisms nor for seat height adjustment mechanisms, such as gas cylinders.

It does not apply to outdoor seating.

Requirements for ageing and degradation are not included.

2 Normative reference

This European pre-standard incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to the European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publications referred to applies.

EN 1022 Domestic furniture - Seating - Determination of stability.

prEN 1728:1998 Domestic furniture - Seating - Testing methods - Determination of strength and durability.

3 Terms and definitions

For the purposes of this European standard, the following terms and definitions apply:

3.1 accessible parts: Parts to which access can easily be gained when the seating is in its intended position of use and for which the probability of unintentional user contact is high.

In order to distinguish the accessible parts from other parts, the furniture is imagined as enveloped in a shrunk film that completely follows the outer contours.

All parts which can be reached from the surface of the shrunk film by a probe 60 mm in length are accessible.

This probe consists of a cylinder made of plastic or other hard, smooth material with a 60 mm mark on its length. There are two probes having diameters 8 mm and 25 mm.

3.2 shear and squeeze points: Shear and squeeze points exist if the distance between two accessible parts relative to each other can be less than 25 mm or more than 8 mm when under body weight.

4 Safety requirements

4.1 Edges and corners

Components or parts of the seating with which the user may come into contact during normal use shall not have burrs, sharp edges or sharp points, nor shall there be any open ended tubes.

4.2 Shear and squeeze points

Shear and squeeze points shall as far as possible be avoided.

In cases where this is not possible, the requirements specified in 4.2.2 and 4.2.3 shall be fulfilled.

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4.2.1 Shear and squeeze points when setting up and folding

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Provided 4.2.2 and 4.2.3 are not applicable, shear and squeeze points that are created only during setting up or folding the seating are acceptable because the user can be assumed to be in control of his/her movements and to be able to cease applying the effective forces immediately on experiencing pain.

4.2.2 Shear and squeeze points under the influence of powered mechanisms

There shall be no accessible shear and squeeze points being created by parts of the seating operated by powered mechanisms, including springs.

4.2.3 Shear and squeeze points under body weight

Shear and squeeze points as defined in 3.2 are not acceptable if unintentional movement of the parts may occur so that a hazard is created by the weight of the user.

Shear and squeeze points shall not be created by normal movements and actions, e.g. attempting to move the seating by lifting the seat or by adjusting the backrest.

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4.3 Stability

The seating shall not overturn when tested in accordance with the applicable tests specified in EN 1022. In the case of seating which might not fulfill the stability requirements before carrying out any tests, the applicable stability tests may be carried out before starting the sequence of tests specified in table 1.

4.4 Structural

After carrying out the relevant strength and durability tests specified in table 1 there shall be no damage or change of function that affect the safety of the seating. This also implies that after testing there shall be no sharp edges, sharp points etc.

It should be understood that fulfilling the specified requirements does not ensure that failure will not occur as a result of habitual misuse or after an excessively long period of service.

5 Test Report

The test report shall include the following items:

- (a) reference to this European Standard;
- (b) details of furniture tested;
- (c) any defects observed before testing;
- (d) the test results;
- (e) details of any deviations from this European Standard;
- (f) the name and address of the test facility;
- (g) the date of test.

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